

In the Claims

Please replace all prior versions, and listings, of claims in the application with the following list of claims:

1. (Cancelled)
2. (Previously Presented) A composition as in claim 11, the material having an average particle size of less than about 50 nm wherein the material, when heated to 700°C, retains an average surface area of at least about 150 m²/g.
3. (Previously Presented) A composition as in claim 11, the material having an average particle size of less than about 25 nm wherein the material, when heated to 700°C, retains an average surface area of at least about 200 m²/g.
4. (Previously Presented) A composition as in claim 11, the material having an average particle size of less than about 10 nm wherein the material, when heated to 700°C, retains an average surface area of at least about 300 m²/g.
5. (Previously Presented) A composition as in claim 11, the material having an average particle size of less than about 5 nm wherein the material, when heated to 700°C, retains an average surface area of at least about 400 m²/g.
- 6-10. (Cancelled)
11. (Previously Presented) A composition comprising a material having an average particle size of less than about 100 nm wherein the material, when heated to 700°C for at least about 10 min, retains an average surface area of at least about 100 m²/g, the material comprising barium hexaaluminate.

12-14. (Cancelled)

15. (Previously Presented) A composition as in claim 11, wherein the material retains an average surface area of at least about 300 m²/g at room temperature.

16. (Cancelled)

17. (Previously Presented) A composition as in claim 11, wherein the material, when heated to at least 900°C, retains an average surface area of at least about 100 m²/g.

18. (Previously Presented) A composition as in claim 11, wherein the material, when heated to at least 1100°C, retains an average surface area of at least about 20 m²/g.

19. (Previously Presented) A composition as in claim 11, wherein the material, when heated to at least 1300°C, retains an average surface area of at least about 20 m²/g.

20-71. (Cancelled)

72. (Previously Presented) A composition as in claim 11, wherein the material is immobilized on a surface of a monolith.